WARNING This manual contains information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer. The entire manual should be carefully read.

Maintenance Manual

PC6010

DSC®

Quick Reference Guide

This manual is for Supervisor and Master users. Each of these types of user can access a different set of functions.

The ✓Supervisor , and ✓ Master symbols next to the title of each procedure show which users can access that function.

Each user should read all the sections that describe the functions they can access. All users should read pages 1-2 for important information on security system operation.

To use any function:

1. When the keypad is idle, it displays the time and date:

   ```
   12:00 2000/01/01
   Enter Your Code
   ```

   Enter your access code to go to the main menu.
2. The keypad prompts you with questions about which function you want to choose. See the appropriate section for information on each function.
3. Press Yes to select a function
   Press No to skip to the next function.
4. Answer Yes or No to each of the questions until you are finished.

***Remember**: If you want to start over, press* Cancel *at any time.*

If you are viewing a list of items, the keypad displays a flashing > when there is more information. Use < > to see each item in the list.

Main Menu:

This is the order of the prompts in the main menu. For more information on each prompt, refer to the page number indicated. Users will see only the prompts they have access to.

Prompt	Page No.
Turn Areas On?	*User's Guide*
Turn Areas Off?	*User's Guide*
Delay Auto-Arm?	5
End of basic user prompts	
Activate Door Strike?	*User's Guide*
Reset Detectors?	*User's Guide*
End of advanced user prompts	
Cancel Auto-Arm?	5
View Event Log?	10
Change Access Codes?	14
Change Keypad Setup?	20
End of supervisor user prompts	
Change Detector Setup?	8
View System Status?	11
View Detector Status?	12
Change Time and Date?	21
Perform System Test?	22
Allow System Service?	24
End of master (all) user prompts	

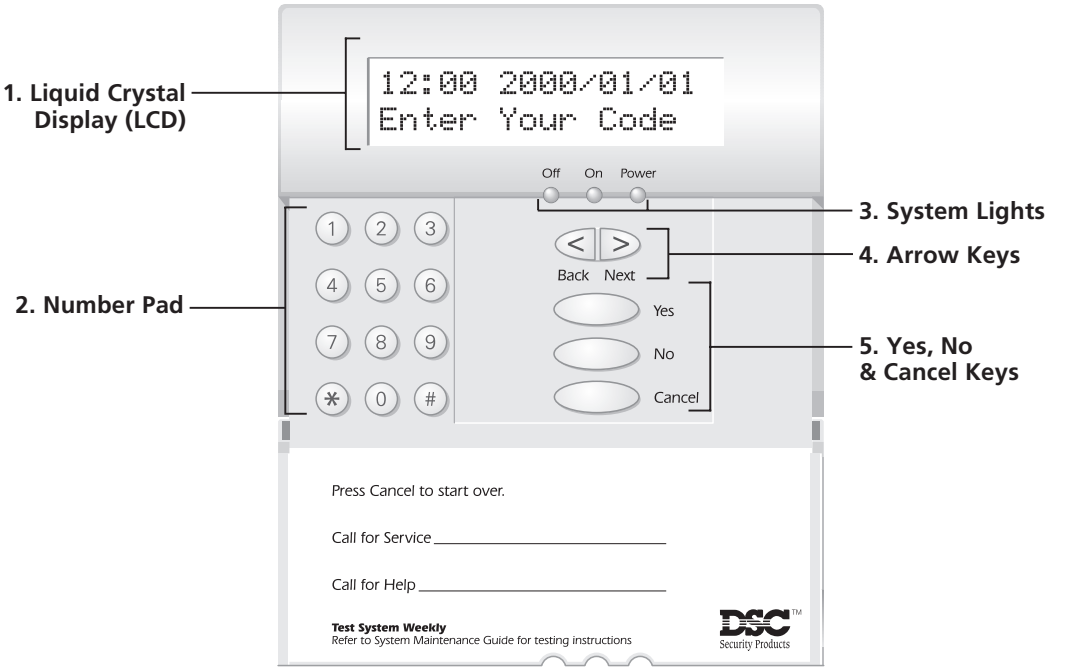
End of List View List Again?

To return to the beginning of the prompts, press Yes.

To return to the start screen, press No.

Table of Contents

Keypad Buttons and Lights



1. Liquid Crystal Display (LCD):

The LCD displays prompts and system information on two 16-character lines. This diagram shows the Start Screen.

2. Number Pad:

Use the number pad to enter your access code.

3. System Lights:

The On and Off lights will only be lit as described after you have entered a valid access code. If no code has been entered, only the Power light will be on.

Off Light

When you are turning areas on or off, the Off light will turn on to tell you that the area displayed is currently off.

On Light

When you are turning areas on or off, the On light will turn on to tell you the area displayed is currently on.

Power Light

The Power light will always be on, unless the system or one of the modules has lost AC power.

4. Back/Next Keys:

If you are viewing items in a list, use the < > keys to move forward to the next item, or back to the previous item. If there is more information to view, the keypad will flash a > in the top right corner of the display.

5. Yes, No and Cancel Keys:

For each feature, the system will display a question (e.g. Do you want to turn areas on?). Press Yes to answer yes and No to answer no.

If you are unsure, or have lost your place in the system programming, press Cancel to return to the start screen ("Enter Your Code").

About Your Security System

S E C T I O N 1

Your DSC security equipment has been designed to give you the greatest possible flexibility and convenience. The liquid crystal display (LCD) keypad guides you through each operation with easy-to-understand prompts. With unique sound sequences, the keypad signals faults and other indications of system status.

Read this manual carefully to become familiar with the features that have been implemented on your system. All users of this system should be instructed in the features available to them.

1.1 Using This Manual

There are 4 possible types of users of an PC6010 security system. Each of the 4 user types can access different levels of features, as described in section 6.

This manual describes how to use the features that are available only to Supervisor and Master users. For information on Basic and Advanced user functions (which are also available to Supervisor and Master users), please refer to the *User's Guide*.

Each user type has access to a different set of system functions. Each procedure indicates which users will be able to access it, with a graphic similar to the following:

✓ Supervisor
✓ Master

1.2 Understanding Your Security System

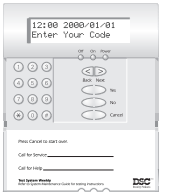
Your security system is made up of a control panel, keypads, and various detectors and sensors.

Control Panel

The control panel is the "brain" of your security system. It controls and monitors all the keypads and sensors, and communicates with the central station (if remote monitoring is turned on). The control panel will be mounted out of the way, in a utility closet or in a basement. The metal cabinet contains the system electronics, fuses, and stand-by battery. There is normally no reason for anyone but the installer or service professional to have access to the control panel.

Keypads

You can access system functions with your keypad(s), described in the *User's Guide*. Each keypad has a sounder. The keypad has a liquid crystal display (LCD) which shows system messages. The keypad can send commands to the system and show the current system status. Your installer will mount the keypad(s) inside your premises, close to the entry/exit door(s).



Zones and Areas

The security system has several zones (monitored areas). Each of these zones will be connected to a sensor (motion detectors, glassbreak detectors, door contacts, etc.). If a sensor goes into alarm, the keypad displays a message (i.e. zone in alarm).

Your installer may have divided the system into different areas. Each area includes one or more zones, and can be turned on and off independently of other areas. Your installer should explain to you which areas have been programmed, and which zones belong to which areas.

Access Codes

As a user of the system, you will be assigned a 4- or 6-digit access code. You can use your access code to turn areas on and off, and to access other system functions.

Your access code may not allow you to use certain system functions. For instance, if your code is only allowed to turn on area 1, you will not be able to turn on other areas. For more information on access codes and how to program them, please see section 6.

1.3 Remote Monitoring

The system can send alarms, troubles and emergency messages over telephone lines to a central station. If you accidentally initiate an alarm, immediately call the central station to prevent an unnecessary response.

NOTE: Your installer must enable monitoring for it to work.

IMPORTANT NOTICE

A security system cannot prevent emergencies. It is only intended to alert you and – if included – your central station of an emergency situation. Security systems are generally very reliable but they may not work under all conditions and they are not a substitute for prudent security practices or life and property insurance. Your security system should be installed and serviced by qualified security professionals who should instruct you on the level of protection that has been provided and on system operations. For important warnings and cautions, please see inside the back cover.

Turning Off Automatic Arming

S E C T I O N 2

Automatic arming (auto-arming) is when the system automatically turns on one or more areas of the system at preset times. Your installer may have set up your system to automatically arm at specific times.
All users can delay auto-arming for a pre-set period of time. Ask your installer how long the automatic arming will be delayed. Supervisor and Master users can cancel auto-arming until midnight of the same day.

Cancelling and Delaying Automatic Arming

✓ Supervisor
✓ Master

Before the system begins automatically arming an area, the keypads will warn users in the area by beeping continuously (this is the auto-arm warning). If you hear the auto-arm warning, you can delay or cancel the automatic arming. Enter your code at an area keypad. The keypad displays:

```
Automatic Arming
in Progress!
```

To cancel or delay the automatic arming, follow the procedure below starting at step 3.

To cancel or delay automatic arming before it starts, follow the procedure below from the beginning.

***NOTE**: If none of your areas are set up for automatic arming, or if automatic arming is already delayed or cancelled, or if the system is set up so that users cannot delay or cancel automatic arming, the keypad will display "This Function is Not Available".*

Step 1.
```
12:00 2000/01/01
Enter Your Code
```
From the start screen, enter your access code.

Step 2. The keypad displays:

```
Do You Want To
Turn Areas On?
```
Press (No) until the keypad displays:

Step 3.
```
Do You Want to
Delay Auto-Arm?
```
or
```
Do You Want to
Cancel Auto-Arm?
```

To confirm either option, press (Yes)

Step 4. The keypad displays the first area which will be auto-armed:

```
Area 1!
Delay Auto-Arm?
```
or
```
Area 1!
Cancel Auto-Arm?
```

To confirm either option, press (Yes).

Step 5. The keypad displays:

Automatic Arming Has Been Delayed	or	Automatic Arming is now Cancelled

If you have delayed automatic arming, the system will try again to arm the system at the end of the delay time programmed by your installer.

If you have cancelled automatic arming, automatic arming will work again, as scheduled, starting the following day.

If there are more areas that will be auto-armed, the keypad displays the next area.

Step 6. At the end of the list of areas, the keypad displays:

End of List
Exit Now?

To return to the list of areas, press No.

To return to the start screen, press Yes.

Using Access Cards

S E C T I O N 3

NOTE: *This section only applies to systems that have card readers and the PC6820 access control module installed. Talk to your installer for information regarding the access control capabilities of your system.*

If your system has access control capabilities, instruct your users on the use of their access cards. All four types of users may use access cards.

Using Your Access Card

✓ Basic
✓ Advanced
✓ Supervisor
✓ Master

To gain access to an area via a door with an access card reader, present your access card to the reader. Depending on the type of reader, this may mean "swiping" your card through the reader, or just holding your card in front of the reader. The system will either grant or deny you access to the protected area, depending on how your card has been programmed.

Most access card readers will have a status light. This light will indicate your access status once the card is presented. The light will appear according to the following conditions:

- Steady red light: The door is locked.
- Steady green light: The door is unlocked.
- Slowly flashing from red to green: The area is turned on.
- Flashing from red to green twice per second: The reader is waiting for a second card to be swiped.
- Flashing from red to green three times per second: Access is denied.

Some access card readers also have audible indicators which beep under certain conditions. The reader may beep when an access control door has been left open too long, or when a door has been forced open.

Turning Areas On and Off Using an Access Card

You may be able to automatically turn your areas on and off using your access card. Ask your installer if this feature has been enabled.

To turn an area on using an access card, ensure that the area is secured. Close all protected doors and cease movement in areas covered by motion detectors. Swipe the access card in the reader. Push the "Arm" button. The exit delay will begin.

To turn an area off, present the access card to the reader. The area may turn off, if the system allows. If disarming is granted, the door will unlock. When you open the door, the system will turn the area off.

To program access cards for your users, please see section 6.

Changing the Setup of Detectors

S E C T I O N 4

If you will need access to a protected area (i.e. a part of the premises covered by a detector) while the system is armed, or if a detector is not working, you can either bypass or disable the detector.

When you tell the system to bypass a detector, it will exclude the selected detector from the armed areas the next time the system is armed. *Bypassed detectors will not be able to sound an alarm.* The bypasses on the detectors are automatically cancelled each time the system is disarmed. If you want the system to bypass the detectors again, you must set the detectors to bypass before the next arming.

When you tell the system to disable a detector, it will exclude the detector from the system until you turn it back on again. *Disabled detectors will not be able to sound alarms, tamper conditions, or faults.*

NOTE: *Bypassing and disabling detectors reduces your security protection. If you are bypassing a detector because it is not working, call a service technician immediately so that the problem can be resolved and your system returned to proper working order.*

4.1 Bypassing and Disabling Detectors

To bypass or disable one or more detectors: ✓ Master

Step 1.

```
12:00 2000/01/01
Enter Your Code
```

From the start screen, enter your access code.

Step 2. The keypad displays:

```
Do You Want To
Turn Areas On?
```

Press No until the keypad displays:

Step 3.

```
Change Detector
Setup?
```

To confirm, press Yes.

Step 4. The keypad displays the first area where you can bypass or disable detectors, for example:

```
Area 1
In This Area?
```

If the detector is in this area, press Yes.

Step 5. The keypad displays the first detector you can bypass or disable, for example:

```
ZONE 1
Select Detector?
```

To select the detector, press Yes.

Step 6. The keypad displays the current status of the detector (i.e. normal, disabled, or bypassed), for example:

```
ZONE 1
Is Normal   >
```

To view the available options for the detector, press >.

Step 7. The keypad displays

```
Disable
ZONE 1  ?
```

To disable the detector, press Yes.
To see more options, press No. The keypad displays

```
Bypass
ZONE 1   ?
```

To bypass the detector, press Yes.
If you press No, the keypad prompts

```
Select Another
Detector?
```

To bypass or disable another detector, press Yes, and then repeat steps 5 to 7.

To exit the Change Detector Setup menu, press No.

Step 8. If you have bypassed or disabled any of the detectors, the keypad displays:

```
Warning-Security
    Reduced
```

for a few seconds, then returns to the start screen.

4.2 "Warning-Security Reduced" Message

The system will display the "Warning-Security Reduced" message when you bypass or disable detectors, or if you try to turn on areas of the system when there are open zones or detectors with faults.

If you see the following message, you can continue to turn your area(s) on, but you should contact your installation company to get the problem detectors working as soon as possible. See section 2.4 of the *User's Guide* for more information on turning areas on when zones are open or detectors have faults.

```
Warning-Security
    Reduced
```

Viewing Events and System Status

S E C T I O N 5

5.1 Viewing the Event Log

✓ Supervisor
✓ Master

The PC6010 system keeps a record of up to 2500 system events in the Event Log. You can view the recorded events on the keypad from most recent (number 0001) to oldest (number 2500). If your installer has connected a printer to your system, the system may be set up to print events as they occur. Ask your installation company for more information.

To view events at the keypad:

Step 1.

```
12:00 2000/01/01
Enter Your Code
```

From the start screen, enter your access code.

Step 2. The keypad displays:

```
Do You Want To
Turn Areas On?
```

Press No until the keypad displays:

Step 3.

```
View
Event Log?
```

To confirm, press Yes.

Step 4. The keypad displays:

```
Scroll...Bck/Nxt
Press No to Exit
```

To view the most recent event, press >.

Step 5. The keypad displays the time and date of the event and the event number, for example:

```
15:16 1999/03/03
Event 0001     *
```

When you see a flashing *, there is more information regarding the event. Press * to see the next screen. For example, the keypad may display:

```
AREA 1
User 1         *
```

and then,

```
Keypad Login
```

Most event log messages are self-explanatory. If you see a message you do not understand, contact your installation company.

Step 6. To view the next event, press >. To skip to a particular event number, enter the 4-digit number (e.g. to see event 200, enter [0200]).

Step 7. When you are finished viewing events, press No. The keypad returns to the start screen.

5.2 Viewing the Status of the System

Master users can view the current status (on or off) of each area on the system, and of each system detector with reduced security (trouble, fault, disabled or bypassed).

✓ Master

To view the status of each area:

Step 1.

```
12:00 2000/01/01
Enter Your Code
```

From the start screen, enter your access code.

Step 2. The keypad displays:

```
Do You Want To
Turn Areas On?
```

Press No until the keypad displays:

Step 3.

```
View System
Status?
```

To confirm, press Yes.

Step 4. The keypad displays the first area and its status:

```
AREA 1
is Off... Next?
```

To view the status of the next area, press Yes.

Step 5. At the end of the list of areas, the keypad displays:

```
End of List
Exit Now?
```

If you are finished viewing area status, press Yes.

To view the status of detectors with reduced security:

✓ Master

Step 1.

```
12:00 2000/01/01
Enter Your Code
```

From the start screen, enter your access code.

Step 2. The keypad displays:

```
Do You Want To
Turn Areas On?
```

Press No until the keypad displays:

Step 3.

```
View Detector
Status?
```

To confirm, press Yes.

Step 4. The keypad displays the first area and asks if you want to view the detectors:

```
AREA 1
View Detectors?
```

To confirm, press Yes.

Step 5. The keypad displays the first detector with reduced security. The keypad displays letters beside the detector label, which indicate the status of the detector (i.e. T = trouble, F = fault, B = bypassed, D = disabled). For example:

```
Zone 001 T  D >
FRONT DOOR
```

This screen shows that zone 001 has a trouble, and is disabled. To view the next detector, press >.

Step 6. At the end of the list of detectors, the keypad displays:

```
End of List
Exit Now?
```

If you are finished viewing detector status, press Yes.

5.3 Viewing and Resetting System Faults

✓ Supervisor
✓ Master

NOTE: *A fault condition reduces the security your system is designed to provide. Call your installation company or service technician to arrange service.*

The control panel continuously checks for a number of possible faults. If one of these faults occur, the keypad beeps twice every 10 seconds. To see a list of system faults, enter your access code and follow the procedure below.

Basic users will only be able to view the following faults:

- Telephone line
- Battery
- AC power
- Seismic detector test
- Fire trouble
- General System Fault

The system will give Advanced, Supervisor and Master users additional information in the fault messages.

If **(AC) Power Fault** is present, the system has lost its power. This trouble may be due to a power outage and should be cleared once the power is restored. If the power on the premises is running normally and the trouble condition persists, call your installation company for service.

If **Telephone Line Fault** is present, there is a problem with the telephone line. If the telephones on the premises are running normally and the trouble condition persists, call your installer for service.

Any other trouble condition will require the assistance of your installation company. As soon as a trouble condition occurs, call your installation company or service technician to have the problem corrected.

Step 1. After you have entered your access code, if there is a fault, the keypad displays:

```
System Fault
View Fault List?
```

To exit fault viewing, press No.
To view faults, press Yes.

Step 2. The keypad displays the list of faults. If you see a flashing >, use the < > keys to scroll through the list of faults.

Step 3. When you come to the end of the list, the keypad displays:

```
End of List
Clear Faults?
```

To return to the main menu, press No.
To clear the faults, press Yes.

Step 4. The system attempts to reset the faults. If all the faults are reset, the keypad displays:

```
Fault(s) Now
Cleared!
```

Step 5. If the system cannot reset all the faults, the keypad displays:

```
Unable to Clear
All Fault(s)!
```

then,

```
Call for Service
Exit Now?
```

To view the faults again, press No.
To exit fault viewing, press Yes.

Programming Access Codes & Cards

S E C T I O N 6

Access codes are used to turn the system on and off, as well as to access system functions. Access codes can be either 4-digits or 6-digits. Talk to your installer if you require 6-digit access codes on your system.

There are four types of codes available on the system.

- Basic
- Advanced
- Supervisor
- Master

These users have access to the functions listed in the table on the right.

Supervisor users can program codes for Basic and Advanced users. Master users can program codes for all user types.

The following sections explain how to program new codes and modify existing codes. All access code options will also be described.

Your security system may also include access control with access cards and card readers. If so, you can also program access cards for each user. See section 6.5.

User Types:	Basic	Advanced	Supervisor	Master
Arm (Assigned Areas)	Y	Y	Y	Y
Disarm (Assigned Areas)	Y	Y	Y	Y
Silence Siren/Bell (Assigned Areas)	Y	Y	Y	Y
View Alarms (Assigned Areas)	Y	Y	Y	Y
Acknowledge/Clear Alarms (Assigned Areas)	Y	Y	Y	Y
View Open Zones (Assigned Areas)	Y	Y	Y	Y
Bypass/Disable Zones on Arming (Assigned Areas)	Y	Y	Y	Y
View and Clear Basic Faults	Y	N	N	N
View and Clear Advanced Faults	N	Y	Y	Y
Delay Automatic Arming	Y	Y	Y	Y
Activate Doorstrike	N	Y	Y	Y
Reset Detectors	N	Y	Y	Y
Cancel Automatic Arming	N	N	Y	Y
View Event Buffer/Log	N	N	Y	Y
Bypass and Disable Zones (All Areas, at Any Time)	N	N	N	Y
View System Status (All Areas)	N	N	N	Y
Change Access Codes (Only Codes in a Lower User Type)	N	N	Y	Y
Change Keypad Setup	N	N	Y	Y
Change Time & Date	N	N	N	Y
Perform System Test	N	N	N	Y
Allow System Service	N	N	N	Y

6.1 Program A New Access Code

To program a new access code, perform the following steps:

✓ Supervisor
✓ Master

Step 1.

```
12:00 2000/01/01
Enter Your Code
```

From the start screen, enter your access code.

Step 2. Press No until the keypad displays:

```
Change
Access Codes?
```

To confirm, press Yes.

Step 3. The keypad displays the number of access codes free for programming, and then:

```
Do You Want To
Add a New User?
```

To confirm, press Yes.

Step 4. The keypad displays:

```
Program Next
Available User?
```

To confirm, press Yes.

Step 5. The keypad displays the next available user, for example:

```
User 2
Edit User Type?
```

Each new user is a basic user by default.
To program a user of a different type, press Yes.

Step 6. Use the < > buttons to scroll through the available user types. When you see the user type you want, press Yes.

Step 7. The keypad displays:

```
User 2
Edit User Type?
```

If the user type is correct, press No.

Step 8. The keypad displays:

```
User 2
Program Code?
```

To program the access code, press Yes, then enter the 4-digit, or 6-digit code.

NOTE: *Do not program access codes that can be easily guessed and will compromise the security of your system (e.g. 1111 or 1234).*

Your system may warn you when you program a code that is already used in the system. Ask your installer if this feature is working on your system. If the feature is working and you program a duplicate code, the keypad sounds an error tone and displays:

```
Error - Code
Exists
```

and then,

```
User 2
Program Code?
```

Repeat step 8 to program a unique code.

Step 9. When you have completed programming the user code, you can use the < > to scroll to other options that you can program for the user. Each of these options are described in sections 6.2 to 6.9.

6.2 Erase Code

✓ Supervisor
✓ Master

Erase Code?: If you select this function, the keypad displays:

```
Press (YES) to
Erase code...
```

To confirm, press Yes.

The system erases the 4- or 6-digit code. The system keeps the rest of the user's programming in memory.

6.3 Edit User Name

✓ Supervisor
✓ Master

Edit User Name?: If you select this function, you can change the label for the user (e.g. you can change "User 2" to "Jane Smith". The user name label is displayed on the keypad when you are editing access codes, or when you are reviewing the event log. You will also be able to search for a user with the user name label. The keypad displays:

```
Program Name  *
User 2
```

Enter the new user name using the number keys in the following manner:

Pressing number keys 1 - 9 will enter the letters of the alphabet (in upper-case letters). Each key can enter 3 different letters and a number, depending on the number of times you press it. The diagram on the right shows the number keys that will enter each letter.

Example: To enter "A", press [1] one time
To enter "B", press [1] two times
To enter "C", press [1] three times
To enter "1", press [1] four times

When you have entered the letter you want, press > to move the cursor to the next space.

To enter a blank space, press [0].

To move the cursor back a space, press <.

To erase a character, use the < > keys to move the cursor under the character, then press the [0] key.

If you press the * key, the system provides additional label-entry options. Use the yes and no keys to select the option you want.

The available options are:

- Clear Display?: To erase the entire label, press Yes.
- Clear to End?: To erase the label from the character where the cursor was located to the end of the display, press Yes.
- Change Case?: To change the case of the letters you enter, press Yes.
- Enter ASCII?: To enter uncommon characters, press Yes.
  Use the < > keys to scroll through the available characters. Each character will be displayed along with the corresponding 3-digit ASCII number. If you know the character's 3-digit number, you can enter it. To enter the character into the label, press Yes. See Appendix A at the back of this manual for a list of the available ASCII characters.

6.4 Creating a Duress Code

✓Supervisor
✓Master

Duress Options?: If you turn on the "Duress" user option, the code can become a Duress code. The Duress code will be the same as the regular access code, plus one (for example, if your code is 1234, your Duress code will be 123**5**).

When a user enters a duress code, the security system sends a duress signal to the central station. Make sure that you also assign the code to the appropriate areas, or the system will not see the code as valid when it is entered by a user. (See Assigning Areas, below.) If you select Duress Options, the keypad displays:

```
Duress is now
     Off
```

and then,

```
Turn Duress
Option On?
```

To turn on the duress option, press Yes.

6.5 Programming an Access Card

✓Supervisor
✓Master

Program Card?: Your security system may also include access control with access cards and card readers. If so, you can also program an access card for each user. If you select Program Card, the keypad displays:

```
Enter Card # *
      0000000
```

Use the number keys to enter the 7-digit card number for the user.

If necessary, you can also enter hexadecimal (hex) digits in the first two digits of the card number. To enter a hex digit, press (*), then press Yes. You can enter a hex number from A to F. Use the < > keys to scroll to the number. To select a number, press Yes.

When you are finished entering the card number, press Yes to save it.

6.6 Programming a Code Schedule

✓Supervisor
✓Master

Code Schedule?: If you want access codes to work at only certain times, you can assign a date schedule to each access code. A date schedule will include the start and end times for each event, the days of the week the schedule will be active for and any holiday groups the event will observe. Your installer can program custom schedules for you to use. Ask your installation company for more information.

Enter the 2-digit number of the schedule you want to program.

Schedules 00 and 01

If you program date schedule 00, the code will be disabled (this schedule is never active). If you program date schedule 01, the code will be always on (this schedule is always active). By default, all codes are programmed for date schedule 01.

6.7 Programming a Card Access Level

✓ Supervisor
✓ Master

`Edit Card Access`: When your installation company programmed your system, they may have set up access control doors with different levels of access. You can use access levels to control who can enter areas of the system, and at what times.

Access levels will allow specific users to have access to areas of the system at various times of the day. Each door may have multiple access levels assigned to it. Each access level follows one date schedule. For information on which access levels have been assigned to your access control doors, please contact your installation company.

For example, access level 02 is assigned to a date schedule that is active Monday to Friday, from 8:00 am to 5:00 pm. The installer has assigned the front door to access level 02. If you assign user 2 to access level 02, that user will only be able to enter the front door from Monday to Friday, between 8:00 am and 5:00 pm.

Users with access level 01 always have access to all doors. Users with access levels 02 - 63 will be allowed entry by the access door only during the times that the assigned date schedule is active. Users with access level 00 will never be allowed entry by any of the access control doors.

Enter the 2-digit number of the access level you want to program.

6.8 Enabling and Disabling Access Cards

✓ Supervisor
✓ Master

`Card Options?`: In order for a user's card to work on the system, it must be enabled. New user cards are enabled by default. If you select Card Options, the keypad displays the current status of the card, for example:

Card is Now Enabled	then,	Make the Card Disabled?

To disable the card, press Yes.
To leave the card enabled, press No.

6.9 Assigning Areas to a User

✓ Supervisor
✓ Master

`Assign Areas?`: Your installer has divided the system into areas. The system may contain one or more areas. In order for an access code to function, you must program which areas the code will be active on. If your system only has one area, you must activate the code for area 1.

Supervisor users can only assign users to areas that the supervisor has access to (e.g. if the supervisor has access to areas 1 and 2, they will only be able to assign users to areas 1 and 2.) Master users are always assigned to all areas.

When you select Assign Areas, the keypad displays (for example):

| Area 1 >
Is Assigned? N |
|---|

To assign the area displayed, press Yes.
To scroll to the next available area, press >.

6.10 Changing Options for an Existing Code

✓ Supervisor
✓ Master

To change the options for an existing code, you must first search for it using one of three methods: by user number, by card number, or by user name. To change an existing code:

Step 1.
```
12:00 2000/01/01
Enter Your Code
```
From the start screen, enter your access code.

Step 2. Press No until the keypad displays:

```
Change
Access Codes?
```
To confirm, press Yes.

Step 3. The keypad displays the number of access codes free for programming, for example:

```
0999 Users Free
1000 Users Total
```
and then,
```
Do You Want To
Add a New User?
```
Press No.

Step 4. The keypad displays:

```
Do You Want To
Change a User?
```
To confirm, press Yes.

Step 5. Select a search method. There are three ways you can search for a user code to edit:

`Search By Num?`: Select this option to search for a user by user number. Enter the 4-digit user number for the user you want to change, or use the < > keys to scroll to the user you want.

When you see the user number you want, press Yes.

`Search By Card?`: Select this option to search for a user by access card number. Enter the 7-digit card number for the user you want to change.

`Search By Name?`: Select this option to search for a user by user name. Enter all, or part of the name for the user you want. The system will display the first matching name. To confirm that this is the correct name, press Yes.

Step 6. To confirm that you have found the correct user, press Yes again.

The keypad displays (for example):

```
User 2
Edit User Type?
```
You can now edit any of the user options, as described in sections 6.1 to 6.9.

6.11 Walk Test Code

You can use the walk test code to perform a walk test of your security system. See section 8.1 for instructions on performing a walk test. The walk test code is programmed by your installer. Talk to your installer for more information regarding this code.

Changing System Settings

S E C T I O N 7

7.1 Changing Keypad Settings

✓ Supervisor
✓ Master

Supervisor and Master users can change four keypad settings: the door chime setting, keypad display brightness, keypad display contrast, and keypad buzzer volume. These settings can be changed at each system keypad. To change any of these settings:

1. 12:00 2000/01/01
   Enter Your Code
   From the start screen, enter your access code.
2. Press No until the keypad displays:

   Change Keypad
   Setup?

   To confirm, press Yes.
3. The keypad displays the beginning of the keypad setup menu. Use the < > keys to scroll to the keypad setting you want to change, and then press Yes. Each of the four settings is described below.

Changing the Door Chime Setting

Door Chime Control?: If you turn this feature on, the keypad will beep five times when selected zones are opened or closed. This feature is normally used to notify users when entry/exit doors are opened and closed. Ask your installer which zones will activate the door chime.

After answering Yes to the prompt, press Yes again to turn the door chime on or off.

Changing Keypad Brightness

Brightness Control?: This option allows you to control how bright the keypad backlighting will be when the keypad is not in use.

After answering Yes to the prompt, press > to increase the backlighting, or < to decrease the backlighting.

Press Yes to save the backlighting setting.

Changing Keypad Contrast

Contrast Control?: This option allows you to control how much contrast there is on the keypad display.

After answering Yes to the prompt, press > to increase the contrast, or < to decrease the contrast.

Press Yes to save the contrast setting.

Changing Keypad Buzzer Volume

`Buzzer Control?`: This option allows you to control the volume and tone of the keypad buzzer.

After answering Yes to the prompt, press the < > keys to scroll through the keypad buzzer options.

Press Yes to save the keypad buzzer setting.

7.2 Changing the System Time and Date

Master users can change the system time and date. If the security system loses power, you may need to reset the system time and date. To change the time and date:

✓ Master

1.
```
12:00 2000/01/01
Enter Your Code
```
From the start screen, enter your access code.

2. Press No until the keypad displays:

```
Change Time
And Date?
```
To confirm, press Yes.

3. The keypad displays the current time and date setting and prompts:

```
12:00 2000/01/01
Change The Time?
```
To change the time, press Yes.

4. The keypad displays:

```
Set 24hr Time
Enter HHMM  1200
```
Enter the current time in 24-hour format (e.g. to enter 1:00 pm, enter [1300]).

5. As soon as you enter all 4 digits, the keypad saves the entered time and displays:

```
13:00 2000/01/01
Change The Date?
```
To change the date, press Yes.

6. The keypad displays:

```
Set Date
(YYMMDD)  000101
```
Enter the current date: enter the last 2 digits of the current year, 2 digits for the current month, and 2 digits for the day.

7. As soon as you enter all 6 digits, the keypad saves the date and displays:

```
13:00 2000/01/01
Exit Now?
```
If the time and date displayed are correct, press Yes.

If not, press No and repeat steps 3 to 6.

Testing and Maintenance

S E C T I O N 8

8.1 Testing Your Security System

***NOTE**: You should test your system every week. If there are any trouble conditions on the system, call your installation company or service technician immediately.*

There are two features that allow you to test that your security system is working properly: the system test, and the walk test.

System Test

Master users can conduct a test of the system bells, system lights, and telephone communications. To begin the system test:

✓ Master

1. 12:00 2000/01/01
   Enter Your Code

   From the start screen, enter your access code.

2. Press No until the keypad displays:

   Perform System
   Test?

   To confirm, press Yes.

3. The keypad displays:

   Start
   Bell Test?

   To confirm, press Yes.

4. The keypad displays:

   Test All
   Your Areas?

   To test all the areas, press Yes.

   To test the bells in only a certain area, press No, then use the < > keys to scroll to the area you want to test.

5. After you select area(s) to test, the keypad displays:

   Test in
   Progress!

   The system will sound all the bells and keypad buzzers in the selected area(s) for 2 seconds. The lights on the keypad will light up, and the keypad display will show solid blocks.

   If any bells in the selected area(s) did not sound, or if the keypads are not working correctly, contact your installation company. You can now either exit the bell test menu and select another test to perform (press Yes at the prompt), or select another area to test (press No at the prompt).

6. To test the lights on all system annunicators, answer Yes to:

   Start
   Lamp Test?

7. The system will attempt to turn on all the lights on all the system annunciators. The lights will be on for 2 seconds. When the test is complete, the keypad displays:

   ```
   Test Complete!
   ```

   If any lights did not work during the test, contact your installation company. You can now either test the lights again (press Yes at the prompt), or select another test to perform (press No at the prompt).
8. To test communications on telephone line number 1, answer Yes to:

   ```
   Test Phone #1
   Communications?
   ```

   The system attempts to call out on telephone number 1 (programmed by your installer) and to send a test code to the central station. If the test was unsuccessful, the keypad displays:

   ```
   Test Phone #1
   Has Failed!
   ```

   and then,

   ```
   Test Complete!
   ```

   If you see this message, contact your installation company.
9. You can now either test telephone number 1 again (press Yes at the prompt), or test telephone numbers 2 or 3 (press No at the prompt).
10. If you are finished testing the system, press No until you exit the system test menu.

Walk Test

The Walk Test feature allows you to test if the detectors in an area are working properly. Any user can enter the walk test code to conduct a walk test. There are five options in the walk test menu. To access the walk test options:

1. ```
   12:00 2000/01/01
   Enter Your Code
   ```

   From the start screen, enter the [Walk Test Code].

   If you do not know the walk test code, ask your installer.

2. The keypad displays the first area which can be tested, for example:

   ```
   Area 1
   Test This Area?
   ```

   To test the area, press Yes.
3. The keypad displays the walk test menu. There are five walk test menu options, described below. Use the < > keys to scroll to the walk test option you wish to use and press Yes.
   - `Start Local Walk Test?`: When you select this option, the keypad will sound three quick beeps and return to the start screen. You can then test each detector in the area. Consult each device's manufacturer's instructions for proper ways to test them.

     For motion detectors, create movement in the detected area. For door and window contacts, open and close protected doors and windows. Any open zone will cause the bell or siren to sound for two seconds, confirming that the detectors are working properly.
   ```

During walk test mode, no alarms in that area will be transmitted to the central station. However, if a printer is connected to the system, the open zones will be printed.

- `Start Local+Com Walk Test?`**:** This option operates the same as Local Walk Test, except that alarms will be transmitted to the central station in order to test communications.
- `Start Silent Com Walk Test?`**:** This option will operate the same as the Local+Com Walk Test, except that the bell will not sound when each zone is activated.
- `Start Seismic Test?`**:** This option will test all seismic detectors enrolled on the system. The test will perform itself and will take a few minutes to complete. Once the test is finished, the area will return to its normal disarmed state.
- `End Walk Test?`**:** To end every walk test, this option must be selected. Once you have completed your test, enter the [Walk Test Code]. Select the area that was tested, and then use the arrow keys to scroll to this option and press Yes. The system will turn off walk testing for the area. The walk test mode will also be automatically turned off if the area is armed.

4. When you are finished walk testing the system, select the **End Walk Test** menu option. If any part of your system did not work correctly during the walk test, contact your installation company immediately.

8.2 Allowing System Service

✓ Master

Your installer may have set up the system so that a master user will need to allow system service before a service technician can access the system programming (either at a keypad, or from a remote computer).

To allow a service technician to have access to the system programming, answer Yes to:

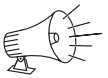
```
Allow System
Service?
```

The service technician will now be able to access system programming for the next 60 minutes.

Glossary

Access code: A four- or six-digit code that allows you to turn areas on or off, and to use other system functions.

Alarm: When a zone is violated (e.g. a smoke detector detects smoke, a motion detector senses movement, a door with a contact is opened), it triggers an alarm.



Intrusion alarm: An alarm triggered by an intrusion detector (e.g. motion detectors, glassbreak detectors, door/window contacts). Usually occurs when the system is turned on.

Fire alarm: An alarm triggered by fire, smoke or heat detectors. Fire alarms may be triggered at any time, whether the system is on or off.

Area: A group of zones that can be turned on or off together. See Zone.

Auto-arming: When the system turns on one or more areas at a preset time of the day.

Central Station: If remote monitoring is enabled, your system will send alarms, faults and emergency messages to the central station. The central station will then notify authorities in your area, if necessary.

Detector: A part of the system that can detect problems and report them to the control panel (e.g. a motion detector can tell the control panel if there is movement in a protected area).

Duress Code: A type of access code that users can enter if they are confronted with an intruder. When you enter a duress code, the system will work as usual, but also sends a duress message to the central station.

Entry time: A timer programmed by your installer. The timer begins counting down when you enter an area that is on. You must enter an access code to turn the area off before the timer runs out, or an alarm will be triggered.

Entry/exit doors: Your installer will program the doors you usually use to enter or exit the premises as entry/exit doors. These doors have entry and exit times. Your installer will usually place keypads near the entry/exit doors for easy access to system functions.

Exit time: A timer programmed by your installer. The timer begins counting down when you turn your system on, to allow you a period of time in which to leave the premises. At the end of the exit time, the system will be turned on.

[120]

Fault: The control panel continuously checks the system for conditions that may reduce its effectiveness. If the control panel finds one of these conditions (fault), it will indicate this at the keypad(s) to alert you to the problem.

Main Menu: The first set of options available after you enter your access code, starting with "Do you want to turn areas on?", or "Your areas are ON/OFF... Exit Now?".

Security System: The main control panel, detectors, devices and keypads, which together provide security monitoring of an area.

Start Screen: What the keypad displays before you enter your access code:

```
12:00 2000/01/01
Enter Your Code
```

System Test: A test of the system bells, lights and telephone line communications.

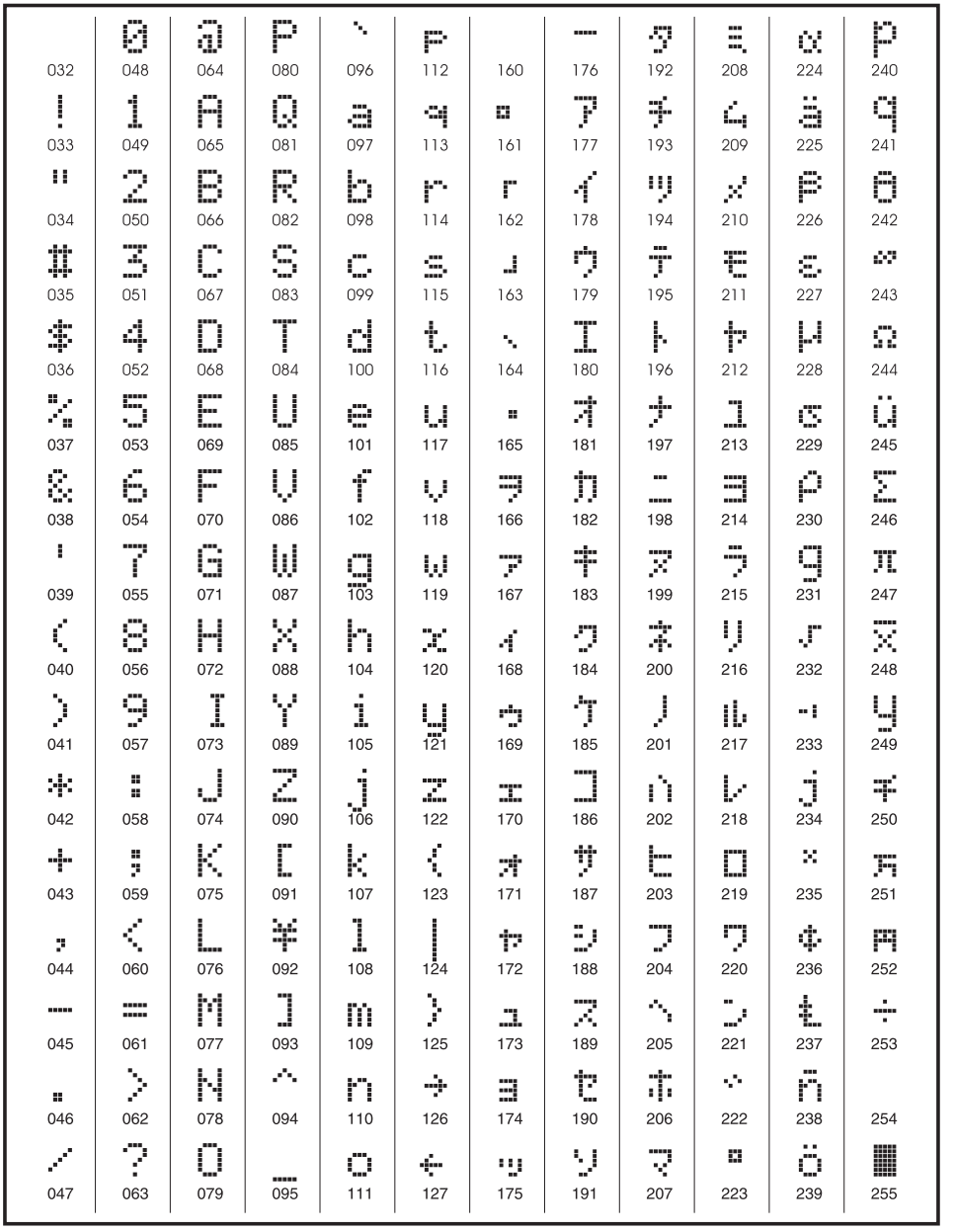
Walk Test: A test of the system detectors. During a walk test, you walk through the area being tested and try to trigger each detector individually (e.g. by moving in front of a motion detector).

Zone: A part of the premises monitored by a detector (smoke detector, door/window contact, motion detector, glassbreak detector, etc.). See Area.

Special Character Chart

A P P E N D I X A

Use this chart to program special characters in system labels. See section 6.3 for instructions.



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LIMITED WARRANTY

Digital Security Controls Ltd. warrants the original purchaser that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use. During the warranty period, Digital Security Controls Ltd. shall, at its option, repair or replace any defective product upon return of the product to its factory, at no charge for labour and materials. Any replacement and/or repaired parts are warranted for the remainder of the original warranty or ninety (90) days, whichever is longer. The original owner must promptly notify Digital Security Controls Ltd. in writing that there is defect in material or workmanship, such written notice to be received in all events prior to expiration of the warranty period.

International Warranty

The warranty for international customers is the same as for any customer within Canada and the United States, with the exception that Digital Security Controls Ltd. shall not be responsible for any customs fees, taxes, or VAT that may be due.

Warranty Procedure

To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. Anyone returning goods to Digital Security Controls Ltd. must first obtain an authorization number. Digital Security Controls Ltd. will not accept any shipment whatsoever for which prior authorization has not been obtained.

Conditions to Void Warranty

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover:

- damage incurred in shipping or handling;
- damage caused by disaster such as fire, flood, wind, earthquake or lightning;
- damage due to causes beyond the control of Digital Security Controls Ltd. such as excessive voltage, mechanical shock or water damage;
- damage caused by unauthorized attachment, alterations, modifications or foreign objects;
- damage caused by peripherals (unless such peripherals were supplied by Digital Security Controls Ltd.);
- defects caused by failure to provide a suitable installation environment for the products;
- damage caused by use of the products for purposes other than those for which it was designed;
- damage from improper maintenance;
- damage arising out of any other abuse, mishandling or improper application of the products.

Digital Security Controls Ltd.'s liability for failure to repair the product under this warranty after a reasonable number of attempts will be limited to a replacement of the product, as the exclusive remedy for breach of warranty. Under no circumstances shall Digital Security Controls Ltd. be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, but are not limited to, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property.

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This warranty contains the entire warranty and shall be in lieu of any and all other warranties, whether expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose) And of all other obligations or liabilities on the part of Digital Security Controls Ltd. Digital Security Controls Ltd. neither assumes nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

This disclaimer of warranties and limited warranty are governed by the laws of the province of Ontario, Canada.

WARNING: Digital Security Controls Ltd. recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

Out of Warranty Repairs

Digital Security Controls Ltd. will at its option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to Digital Security Controls Ltd. must first obtain an authorization number. Digital Security Controls Ltd. will not accept any shipment whatsoever for which prior authorization has not been obtained.

Products which Digital Security Controls Ltd. determines to be repairable will be repaired and returned. A set fee which Digital Security Controls Ltd. has predetermined and which may be revised from time to time, will be charged for each unit repaired.

Products which Digital Security Controls Ltd. determines not to be repairable will be replaced by the nearest equivalent product available at that time. The current market price of the replacement product will be charged for each replacement unit.

WARNING Please Read Carefully

Note to Installers

This warning contains vital information. As the only individual in contact with system users, it is your responsibility to bring each item in this warning to the attention of the users of this system.

System Failures

This system has been carefully designed to be as effective as possible. There are circumstances, however, involving fire, burglary, or other types of emergencies where it may not provide protection. Any alarm system of any type may be compromised deliberately or may fail to operate as expected for a variety of reasons. Some but not all of these reasons may be:

■ Inadequate Installation

A security system must be installed properly in order to provide adequate protection. Every installation should be evaluated by a security professional to ensure that all access points and areas are covered. Locks and latches on windows and doors must be secure and operate as intended. Windows, doors, walls, ceilings and other building materials must be of sufficient strength and construction to provide the level of protection expected. A reevaluation must be done during and after any construction activity. An evaluation by the fire and/or police department is highly recommended if this service is available.

■ Criminal Knowledge

This system contains security features which were known to be effective at the time of manufacture. It is possible for persons with criminal intent to develop techniques which reduce the effectiveness of these features. It is important that a security system be reviewed periodically to ensure that its features remain effective and that it be updated or replaced if it is found that it does not provide the protection expected.

■ Access by Intruders

Intruders may enter through an unprotected access point, circumvent a sensing device, evade detection by moving through an area of insufficient coverage, disconnect a warning device, or interfere with or prevent the proper operation of the system.

■ Power Failure

Control units, intrusion detectors, smoke detectors and many other security devices require an adequate power supply for proper operation. If a device operates from batteries, it is possible for the batteries to fail. Even if the batteries have not failed, they must be charged, in good condition and installed correctly. If a device operates only by AC power, any interruption, however brief, will render that device inoperative while it does not have power. Power interruptions of any length are often accompanied by voltage fluctuations which may damage electronic equipment such as a security system. After a power interruption has occurred, immediately conduct a complete system test to ensure that the system operates as intended.

■ Failure of Replaceable Batteries

This system's wireless transmitters have been designed to provide several years of battery life under normal conditions. The expected battery life is a function of the device environment, usage and type. Ambient conditions such as high humidity, high or low temperatures, or large temperature fluctuations may reduce the expected battery life. While each transmitting device has a low battery monitor which identifies when the batteries need to be replaced, this monitor may fail to operate as expected. Regular testing and maintenance will keep the system in good operating condition.

■ Compromise of Radio Frequency (Wireless) Devices

Signals may not reach the receiver under all circumstances which could include metal objects placed on or near the radio path or deliberate jamming or other inadvertent radio signal interference.

■ System Users

A user may not be able to operate a panic or emergency switch possibly due to permanent or temporary physical disability, inability to reach the device in time, or unfamiliarity with the correct operation. It is important that all system users be trained in the correct operation of the alarm system and that they know how to respond when the system indicates an alarm.

■ Smoke Detectors

Smoke detectors that are a part of this system may not properly alert occupants of a fire for a number of reasons, some of which follow. The smoke detectors may have been improperly installed or positioned. Smoke may not be able to reach the smoke detectors, such as when the fire is in a chimney, walls or roofs, or on the other side of closed doors. Smoke detectors may not detect smoke from fires on another level of the residence or building.

Every fire is different in the amount of smoke produced and the rate of burning. Smoke detectors cannot sense all types of fires equally well. Smoke detectors may not provide timely warning of fires caused by carelessness or safety hazards such as smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches or arson.

Even if the smoke detector operates as intended, there may be circumstances when there is insufficient warning to allow all occupants to escape in time to avoid injury or death.

■ Motion Detectors

Motion detectors can only detect motion within the designated areas as shown in their respective installation instructions. They cannot discriminate between intruders and intended occupants. Motion detectors do not provide volumetric area protection. They have multiple beams of detection and motion can only be detected in unobstructed areas covered by these beams. They cannot detect motion which occurs behind walls, ceilings, floor, closed doors, glass partitions, glass doors or windows. Any type of tampering whether intentional or unintentional such as masking, painting, or spraying of any material on the lenses, mirrors, windows or any other part of the detection system will impair its proper operation.

Passive infrared motion detectors operate by sensing changes in temperature. However their effectiveness can be reduced when the ambient temperature rises near or above body temperature or if there are intentional or unintentional sources of heat in or near the detection area. Some of these heat sources could be heaters, radiators, stoves, barbeques, fireplaces, sunlight, steam vents, lighting and so on.

■ Warning Devices

Warning devices such as sirens, bells, horns, or strobes may not warn people or waken someone sleeping if there is an intervening wall or door. If warning devices are located on a different level of the residence or premise, then it is less likely that the occupants will be alerted or awakened. Audible warning devices may be interfered with by other noise sources such as stereos, radios, televisions, air conditioners or other appliances, or passing traffic. Audible warning devices, however loud, may not be heard by a hearing-impaired person.

■ Telephone Lines

If telephone lines are used to transmit alarms, they may be out of service or busy for certain periods of time. Also an intruder may cut the telephone line or defeat its operation by more sophisticated means which may be difficult to detect.

■ Insufficient Time

There may be circumstances when the system will operate as intended, yet the occupants will not be protected from the emergency due to their inability to respond to the warnings in a timely manner. If the system is monitored, the response may not occur in time to protect the occupants or their belongings.

■ Component Failure

Although every effort has been made to make this system as reliable as possible, the system may fail to function as intended due to the failure of a component.

■ Inadequate Testing

Most problems that would prevent an alarm system from operating as intended can be found by regular testing and maintenance. The complete system should be tested weekly and immediately after a break-in, an attempted break-in, a fire, a storm, an earthquake, an accident, or any kind of construction activity inside or outside the premises. The testing should include all sensing devices, keypads, consoles, alarm indicating devices and any other operational devices that are part of the system.

■ Security and Insurance

Regardless of its capabilities, an alarm system is not a substitute for property or life insurance. An alarm system also is not a substitute for property owners, renters, or other occupants to act prudently to prevent or minimize the harmful effects of an emergency situation.

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